

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|------|------------|--------------------------|------------------|
| Unit No. 01 Stanislaus River | Left | 7.07 | 10/20/2016 10/20/2016 | Maksim Khashchuk |

| | | | | | |
|--------------------------------|-------------------------------|--------------|----|------------------------|-----|
| LM Start | | Rating ** | M | Issue No. | 5 |
| LM End | | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Flood Preparedness & Training | | | ° | ° |
| | | | | ° | ° |
| DWR ID | DWR_RD2031_01_s _ 2013_5 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| LMA has a flood response plan. | | | | | |

No Photos

| | | | | | |
|-----------------------------|--------------------------------|--------------|----|------------------------|-----|
| LM Start | | Rating ** | A | Issue No. | 6 |
| LM End | | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Emergency Supplies & Equipment | | | ° | ° |
| | | | | ° | ° |
| DWR ID | DWR_RD2031_01_s _ 2013_6 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Supplies available on-site. | | | | | |

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

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|------------------------------|------|------------|--------------------------|------------------|
| Unit No. 01 Stanislaus River | Left | 7.07 | 10/20/2016 10/20/2016 | Maksim Khashchuk |

| | | | | | | |
|-------------------------------------|----------------------------------|--------------|----|------------------------|-----|-----|
| LM Start | | Rating ** | A | Issue No. | 12 | |
| LM End | | Issue Type + | Ma | Location * | N/A | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Operations & Maintenance Manuals | | | | ° | |
| | | | | | ° | |
| DWR ID | DWR_RD2031_01_s_2013_12 | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| O&M Manual available at the office. | | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.07 | Rating ** | M | Issue No. | 31 |
| LM End | 0.15 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.709915 ° | 37.708707 ° |
| | | | | -121.156548 ° | -121.156764 ° |
| DWR ID | DWR_RD2031_01_f_2016_31 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD2031_307_31_20161024_00088.jpg



View of the vegetation on the landside levee slope.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

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|------------------------------|------|------------|--------------------------|------------------|
| Unit No. 01 Stanislaus River | Left | 7.07 | 10/20/2016 10/20/2016 | Maksim Khashchuk |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.17 | Rating ** | M | Issue No. | 32 |
| LM End | 0.41 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.708350° | 37.705155° |
| | | | | -121.156856° | -121.158451° |
| DWR ID | DWR_RD2031_01_f_2016_32 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD2031_307_32_20161024_00089.jpg



View of the vegetation on the waterside levee slope. Looking downstream.

| | | | | | |
|---|--------------------|--------------|----|------------------------|---------------|
| LM Start | 0.45 | Rating ** | M | Issue No. | 1 |
| LM End | 0.48 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.704740 ° | 37.704740 ° |
| | | | | -121.159140 ° | -121.159140 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| 07/25/2016: No significant change observed. | | | | | |
| 08/28/2015: No significant change observed. | | | | | |
| 07/31/2014: No significant change observed. | | | | | |
| 09/10/2013: No significant change observed. | | | | | |
| 07/18/2012: No significant change observed. | | | | | |
| 08/18/2011: No significant change observed on site. Debris that blocks the irrigation outlet is visible. | | | | | |
| 10/19/2010: No significant change observed on site. Sloughing of the bank is occurring adjacent to an irrigation outlet structure. There is moderate to heavy vegetation along the bank that is well established. Broken chunks and slabs of concrete are used as rip rap and line the outside of the irrigation outlet structure. However, much of the rip rap along the slope is sloughing and could possibly lead to future slope instability. | | | | | |
| 08/05/2010: Recommended as a local maintenance issue, per CLRO. | | | | | |
| 08/20/2009: No major change observed since last visit; 1 inch fissure cracks developing on the slope; rip rap is showing signs of sloughing; recommend as local maintenance issue; site was previously rated "U". | | | | | |
| 2008: No change from previous year; irrigation outlet located on site; rip rap placed on river bank. | | | | | |
| 09/06/2007: Near agricultural diversion; only 3' landside height differential. [2016 Site ID:RD2031U01RM0.48] | | | | | |

Photo 1 of 2 : SJR2016_RD2031U01RM0.48_1.jpg



Direct view of the site.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

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|------------------------------|------|------------|--------------------------|---------------------|
| Unit No. 01 Stanislaus River | Left | 7.07 | 10/20/2016 10/20/2016 | Maksim Khashchuk |

| | | | | | |
|----------|--------------------|--------------|----|------------------------|---------------|
| LM Start | 0.45 | Rating ** | M | Issue No. | 1 (cont) |
| LM End | 0.48 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.704740 ° | 37.704740 ° |
| | | | | -121.159140 ° | -121.159140 ° |
| DWR ID | | | | | |

Comment Code

[illegible]

| Inspector Comment | |
|-------------------|--|
| | |

07/25/2016: No significant change observed.

08/28/2015: No significant change observed.

07/31/2014: No significant change observed.

09/10/2013: No significant change observed.

07/18/2012: No significant change observed.

08/18/2011: No significant change observed on site. Debris that blocks the irrigation outlet is visible.

10/19/2010: No significant change observed on site. Sloughing of the bank is occurring adjacent to an irrigation outlet structure. There is moderate to heavy vegetation along the bank that is well established. Broken chunks and slabs of concrete are used as rip rap and line the outside of the irrigation outlet structure. However, much of the rip rap along the slope is sloughing and could possibly lead to future slope instability.

08/05/2010: Recommended as a local maintenance issue, per CLRO.

08/20/2009: No major change observed since last visit; 1 inch fissure cracks developing on the slope; rip rap is showing signs of sloughing; recommend as local maintenance issue; site was previously rated "U".

2008: No change from previous year; irrigation outlet located on site; rip rap placed on river bank.

09/06/2007: Near agricultural diversion; only 3' landside height differential. [2016 Site ID: RD2031U01RM0.48]

A photograph showing a riverbank with dense green vegetation, including large-leafed plants in the foreground, and a small stream flowing through a wooded area in the background.

View of the current condition of the bank slope just above the irrigation outlet.

| | | | | | |
|----------|------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.48 | Rating ** | M | Issue No. | 2 |
| LM End | 0.51 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.704385 ° | 37.704050 ° |
| | | | | -121.159217 ° | -121.159578 ° |
| DWR ID | DWR_RD2031_01_s_2012_2 | | | | |

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

| Inspector Comment | |
|-------------------|--|
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Remove vegetation 20 feet away from the levee crown.

View of the large tree branch on the waterside levee slope. Fall 2016

| * Location | ** Rating | + Issue Type |
|--|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable N : Not Inspected/Rated | Ma : Maintenance Deficiency |
| WS : Water Side | M : Minimally Acceptable C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable A/W : Acceptable but Monitor & Maintain | En : Enforcement |

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|------------------------------|------|------------|--------------------------|---------------------|
| Unit No. 01 Stanislaus River | Left | 7.07 | 10/20/2016 10/20/2016 | Maksim Khashchuk |

Photo 2 of 3 : FA_2016_RD2031_307_2_20160914_00004.jpg



View of vegetation on waterside slope. Facing upstream.

Photo 3 of 3 : FA_2016_RD2031_307_2_20160914_00005.jpg



10/26/2011 Updated photo of waterside vegetation.

Photo 1 of 1 : FA_2016_RD2031_307_36_20160914_00021.jpg



View of rodent burrows on landside slope.

| * Location | ** Rating | + Issue Type |
|----------------------|---|-----------------------------------|
| LS : Land Side | A : Acceptable | Ma : Maintenance Deficiency |
| N/A : Not Applicable | N : Not Inspected/Rated | Ob : Design & System Obsolescence |
| WS : Water Side | M : Minimally Acceptable | En : Enforcement |
| CR : Crown | U : Unacceptable | |
| | A/W : Acceptable but Monitor & Maintain | |

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| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|------|------------|--------------------------|------------------|
| Unit No. 01 Stanislaus River | Left | 7.07 | 10/20/2016 10/20/2016 | Maksim Khashchuk |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.84 | Rating ** | M | Issue No. | 42 |
| LM End | 0.84 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.700447° | 37.700447° |
| | | | | -121.162742° | -121.162742° |
| DWR ID | DWR_RD2031_01_f_2016_42 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD2031_307_42_20161024_00091.jpg



View of the erosion of the landside levee slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.00 | Rating ** | M | Issue No. | 59 |
| LM End | 1.00 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.699327 ° | 37.699327 ° |
| | | | | -121.165364 ° | -121.165364 ° |
| DWR ID | DWR_RD2031_01_f_2014_59 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| Some of the rodent holes have collapsed. | | | | | |

Photo 1 of 3 : FA_2016_RD2031_307_59_20161024_00092.jpg



View of the rodent holes on the landside levee slope.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 1.00 | Rating ** | M | Issue No. | 59 (cont) |
| LM End | 1.00 | Issue Type + | Ma | Location * | LS |

Photo 2 of 3 : FA_2016_RD2031_307_59_20160914_00036.jpg



Another view of the rodent hole on the landside levee slope.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

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| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|------|------------|--------------------------|---------------------|
| Unit No. 01 Stanislaus River | Left | 7.07 | 10/20/2016 10/20/2016 | Maksim Khashchuk |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.00 | Rating ** | M | Issue No. | 59 (cont) |
| LM End | 1.00 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.699327 ° | 37.699327 ° |
| | | | | -121.165364 ° | -121.165364 ° |
| DWR ID | DWR_RD2031_01_f_2014_59 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| Some of the rodent holes have collapsed. | | | | | |

Photo 3 of 3 : FA_2016_RD2031_307_59_20160914_00035.jpg



View of the multiple rodent holes on the landside levee slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.16 | Rating ** | M | Issue No. | 44 |
| LM End | 1.16 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.698848 ° | 37.698848 ° |
| | | | | -121.168088 ° | -121.168088 ° |
| DWR ID | DWR_RD2031_01_f_2016_44 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD2031_307_44_20161024_00093.jpg



View of the rodent holes on the landside levee slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.49 | Rating ** | C | Issue No. | 54 |
| LM End | 1.49 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.699554 ° | 37.699554 ° |
| | | | | -121.173417 ° | -121.173417 ° |
| DWR ID | DWR_RD2031_01_f_2015_54 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

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| | | | | | |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.56 | Rating ** | U | Issue No. | 3 |
| LM End | 1.56 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.698776 ° | 37.698776 ° |
| | | | | -121.174327 ° | -121.174327 ° |
| DWR ID | DWR_RD2031_01_s_2012_3 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| Erosion is active around the irrigation standpipe. | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 1.56 | Rating ** | U | Issue No. | 3 (cont) |
| LM End | 1.56 | Issue Type + | Ma | Location * | LS |

Photo 1 of 2 : FA_2016_RD2031_307_3_20160914_00006.jpg



View of the erosion site on landside slope, facing upstream.

Photo 2 of 2 : FA_2016_RD2031_307_3_20160914_00007.jpg




10/26/2011 Active erosion into the levee prism around irrigation standpipe.

| | | | |
|--|--|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|--|---|

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Photo 1 of 1 : FA_2016_RD2031_307_8_20160914_00012.jpg



10/26/2011 Active erosion shown around irrigation inlet.

Photo 1 of 1 : FA_2016_RD2031_307_52_20161024_00094.jpg



View of the active rodent hole on the levee slope. Fall 2016

Photo 1 of 1 : FA_2016_RD2031_307_9_20160914_00013.jpg



10/26/2011 Active erosion into levee prism around irrigation inlet.

| * Location | ** Rating | + Issue Type |
|--|---|-----------------------------------|
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| | | | | | |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.84 | Rating ** | U | Issue No. | 29 |
| LM End | 1.84 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.696121° | 37.696121° |
| | | | | -121.177532° | -121.177532° |
| DWR ID | DWR_RD2031_01_s_2016_29 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD2031_307_29_20160914_00016.jpg



View of the tall vegetation on the landside levee slope.

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.00 | Rating ** | C | Issue No. | 38 |
| LM End | 2.07 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.693720 ° | 37.692782 ° |
| | | | | -121.177527 ° | -121.177642 ° |
| DWR ID | DWR_RD2031_01_s_2012_38 | | | | |
| Comment Code | | | | | |
| C2 : Repair depressions or ruts in the crown or slope. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

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| | | | | | |
|---|---------------------------|--------------|----|------------------------|--------------|
| LM Start | 3.74 | Rating ** | U | Issue No. | 33 (cont) |
| LM End | 4.25 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.689857° | 37.687689° |
| | | | | -121.199746° | -121.205726° |
| DWR ID | DWR_RD2031_01_f _ 2016_33 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Trim back woody vegetation at least 15 feet away from the landside levee toe. | | | | | |

Photo 2 of 3 : FA_2016_RD2031_307_33_20160914_00018.jpg



Typical view of the tall vegetation on the landside levee slope and toe in this area.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 3.74 | Rating ** | U | Issue No. | 33 (cont) |
| LM End | 4.25 | Issue Type + | Ma | Location * | LS |

Photo 3 of 3 : FA_2016_RD2031_307_33_20160914_00019.jpg



Another view of the tall vegetation on the landside levee slope and toe.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 3.78 | Rating ** | M | Issue No. | 57 |
| LM End | 3.81 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.690302° | 37.690664° |
| | | | | -121.200232° | -121.200549° |
| DWR ID | DWR_RD2031_01_f_2015_57 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| Erosion at the landside levee toe. | | | | | |

Photo 1 of 1 : FA_2016_RD2031_307_57_20160914_00033.jpg



View of the 18 inch vertical cut at the landside levee toe.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

Reclamation District No. 2031 Elliot

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|------|------------|--------------------------|---------------------|
| Unit No. 01 Stanislaus River | Left | 7.07 | 10/20/2016 10/20/2016 | Maksim Khashchuk |

| | | | | | |
|-------------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.27 | Rating ** | M | Issue No. | 56 |
| LM End | 6.27 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.668979 ° | 37.668979 ° |
| | | | | -121.225766 ° | -121.225766 ° |
| DWR ID | DWR_RD2031_01_f _ 2016_56 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD2031_307_56_20161024_00100.jpg



View of the broken tree limb on the levee slope.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|-------|------------|--------------------------|---------------------|
| Unit No. 02 San Joaquin River | Right | 5.98 | 10/20/2016 10/20/2016 | Maksim Khashchuk |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.46 | Rating ** | A | Issue No. | 16 |
| LM End | 0.76 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.655679 ° | 37.653843 ° |
| | | | | -121.234410 ° | -121.229365 ° |
| DWR ID | DWR_RD2031_02_f_2016_16 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| No unwanted vegetation on levee slope. | | | | | |

Photo 1 of 1 : FA_2016_RD2031_308_16_20161024_00033.jpg



View of acceptable vegetation control on the levee slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.41 | Rating ** | C | Issue No. | 15 |
| LM End | 1.41 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.648080 ° | 37.648080 ° |
| | | | | -121.221031 ° | -121.221031 ° |
| DWR ID | DWR_RD2031_02_s_2013_15 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 San Joaquin River | Right | 5.98 | 10/20/2016 10/20/2016 | Maksim Khashchuk |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.14 | Rating ** | M | Issue No. | 21 |
| LM End | 2.14 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.640632 ° | 37.640632 ° |
| | | | | -121.221539 ° | -121.221539 ° |
| DWR ID | DWR_RD2031_02_f_2014_21 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD2031_308_21_20160914_00007.jpg



View of overgrown vegetation on the levee crown.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.97 | Rating ** | M | Issue No. | 966 |
| LM End | 3.57 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.637626 ° | 37.638301 ° |
| | | | | -121.207191 ° | -121.196465 ° |
| DWR ID | DWR_RD2031_02_s_2012_966 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| Obstructive trees and vegetation along highway are on the landside slope of the levee. | | | | | |

No Photos

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 San Joaquin River | Right | 5.98 | 10/20/2016 10/20/2016 | Maksim Khashchuk |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.84 | Rating ** | M | Issue No. | 17 |
| LM End | 3.84 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.637916 ° | 37.637916 ° |
| | | | | -121.191595 ° | -121.191595 ° |
| DWR ID | DWR_RD2031_02_f_2016_17 | | | | |
| Comment Code | | | | | |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD2031_308_17_20161024_00036.jpg



View of the tire tracks on the levee slope.

| | | | | | |
|---|--------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.29 | Rating ** | A/W | Issue No. | 1 |
| LM End | 4.33 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.631716 ° | 37.631716 ° |
| | | | | -121.189370 ° | -121.189370 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| 07/08/2016: The erosion in the berm was found further progressed toward levee toe. | | | | | |
| 08/19/2015: No significant change observed. | | | | | |
| 07/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations. | | | | | |
| 09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations. | | | | | |
| 07/18/2012: No significant change observed on the site. | | | | | |
| 08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft. | | | | | |
| 10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2016 Site ID:RD2031U02RM78.7] | | | | | |

Photo 1 of 3 : SJR2016_RD2031U02RM78.7_1.jpg



Looking downstream of the erosion site.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 02 San Joaquin River | Right | 5.98 | 10/20/2016 10/20/2016 | Maksim Khashchuk |

| | | | | | |
|----------|--------------------|--------------|-----|------------------------|--------------|
| LM Start | 4.29 | Rating ** | A/W | Issue No. | 1 (cont) |
| LM End | 4.33 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.631716° | 37.631716° |
| | | | | -121.189370° | -121.189370° |
| DWR ID | | | | | |

Comment Code

Inspector Comment

07/08/2016: The erosion in the berm was found further progressed toward levee toe.
 08/19/2015: No significant change observed.
 07/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations.
 09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations.
 07/18/2012: No significant change observed on the site.
 08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft.
 10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2016 Site ID:RD2031U02RM78.7]

| | | | | | |
|----------|-------------|--------------|-----|------------|-----------------|
| LM Start | 4.29 | Rating ** | A/W | Issue No. | 1 (cont) |
| LM End | 4.33 | Issue Type + | Ma | Location * | WS |

Photo 2 of 3 : SJR2016_RD2031U02RM78.7_3.jpg



Close view of the pocket erosion.

Photo 3 of 3 : SJR2016_RD2031U02RM78.7_4.jpg



Close view of the erosion.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|